BIOLOGY

BOOKS - TARGET PUBLICATION

INTRODUCTION OF BIOTECHNOLOGY

Exercise

1. Choose he correct alternative

Any material that enters the body first encounters the_____ tissue.

A. connective

B. cartilage

C. nervous

D. epithelial

Answer: D

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2. Choose he correct alternative

Which one of the following transports oxygen and nutrients to all cells in the body?

A. Tendon

B. Cartilage

C. Blood

D. Lymph

Answer: C

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3. Choose the correct alternative and write it along with its allotted alphabet:

Protective converings in the animal body are called.....tissues.

A. connective

B. epithelial

C. nervous

D. muscular

Answer: B

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4. Choose he correct alternative

Squarish and Pentagonal shaped cells present on the skin of the back of our hands are _____epithelium.

A. stratified

B. squamous

C. glandutar

D. cuboidal

Answer: A

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Watch Video Solution

5. Choose the correct alternative

Which of the following types of epithelial tissue is made up of cells that contain vesicles packed with secretory material?

A. Glandular epithelium

B. Cuboidal epithelium

C. Columnar epithelium

D. Ciliated epithelium

Answer: A

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6. Choose the correct alternative

Cells of _____epithelium are column-like and bear folds on upper free surface at places of absorption.

A. glandular

B. squamous

C. columnar

D. stratified

Answer: C

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7. Choose the correct alternative

Cuboidal epithelium Present in tubules of helps in reabsorption of useful materials from urine.

A. intestine

B. kidney

C. testis

D. ureter

Answer: B

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8. Choose the correct alternative

Identify the tissue that Consists of cells filled with fat droplets.

A. Areolar

B. Tendon

C. Lymph

D. Adipose

Answer: D

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9. Bones consist of osteocytes embedded in solid ground substance made up of...

calcium bicarbonate

calcium carbonate

calcium phosphate

calcium sulphate

A. phosphate

B. bicarbonate

C. carbonate

D. silicate

Answer: A

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10. Choose the correct alternative

Striated muscles are

A. uninucleated

B. multinucleated

C. binucleated

D. anucleated

Answer: B

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11. Choose he correct alternative

Skeletal muscles are

A. striated

B. non-siriated

C. cardiac

D. involuntary

Answer: A

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12. Choose he correct alternative

Non-striated muscles are NOT,

A. spindle-shaped

B. involuntary

C. branched

D. uninucleate

Answer: C

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13. Choose the correct alternative

Which of the following is NOT associated with a nerve cell?

A. Cell body

B. Nucleus

C. Sacrolemma

D. Dendrite

Answer: C

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14. Choose the correct alternative

Myelin sheath is present in

A. nerve cell

B. striated muscle fibre

C. parenchyma

D. cardiac muscles

Answer: A

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15. Choose the correct alternative

The epidermis of the stem and leaves is covered by a waxy layer of _____

A. apical meristem

B. cuticle

C. lateral meristem

D. parenchyma

Answer: B

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16. Choose he correct alternative

Which of the following is NOT true for cells of the meristematic tissue?

A. It contains thick cytoplasm

B. It contains a conspicuous nucleus

C. These cells are highly active

D. Cells are loosely arranged

Answer: D

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17. Choose the correct alternative

Identify the simple permanent tissue that is Present at the base of branches and stem.

A. Aerenchyma

B. Sclerenchyma

C. parenchyma

D. Collenchyma

Answer: D

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18. Choose the correct alternative

The walls of Sclerenchyma tissue are thicker due to the layer of

A. pectin

B. suberin

C. cellulose

D. lignin

Answer: D

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19. Choose he correct alternative

_____ tissues are present in the leaf petiole.

A. Parenchyma

B. Collenchyma

C. Sclerenchyma

D. Aerenchyma

Answer: B

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20. Choose the correct alternative

Xylem and phloem are_____ tissues.

A. simple Permanent

B. complex Permanent

C. meristematic

D. none of above

Answer: B

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21. Choose he correct alternative

The xylem contains

A. companion cells

B. tracheids

C. sieve tubes

D. stele

Answer: B

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22. Choose the correct alternative

The xylem conduct(s)

A. water, in upward and downward direction

B. minerals, only in upward direction

C. amino acids, from leaves to various parts

D. sugar, only in downward direction

Answer: B

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23. Choose the correct alternative

In living organisms, the cells that are capable of giving rise to a new Organism are called _____cells.

A. collenchyma

B. totipotent

C. aerenchyma

D. sclerenchyma

Answer: B

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24. Choose the correct alternative

Plantlets produced by tissue culture of the_____ are virus-free.

A. aerenchyma

B. rachides

C. meristem

D. chlorenchyma

Answer: C

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25. Which of the following is an exotic variety of cow?

Plymouth Rock

New hampshire

Black Rock

Brown Swiss

A. New Hampshire

B. Holstein

C. Plymouth Rock

D. Gir

Answer: B

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26. Choose the correct alternative

Which one of the following is NOT a broiler chicken?

A. Ascel

B. Brahma

C. Cochin

D. Leghorn

Answer: D

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27. Complete the paragraph

Fill in the blanks by selecting the correct word from the bracket and complete the given paragraph.

(in vivo, tissue culture, biotechnology, energy.

ex vivo, genctic enginecring, aseptic, agar,temperature, totipotency, tissue, collagen)

Techniques for bringing about improvements in living organisms for the welfare of human beings are together called _____.It includes_____and tissue culture. The_____ growth of cells in an nutrient-rich and_____ medium is called tissue culture. In this process, a liquid, solid or gel like medium is prepared from___ which supplies nutrients and___ necessary for the cells to grow.

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28. Name the following

Protective covering in the animal body.

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29. Name the following:

Tissue lining inner surface of the mouth.

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30. Name the following

Tissue joining muscles and bones.

Watch Video Solution

31. Name the following

Muscles that function in contraction and relaxation of the heart.

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32. Name the following

Tissue present in brain, spinal cord and network of nerves.

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33. Name the following

Tissue responsible for increaseing the height of plants.

Watch Video Solution

34. Name the following

Tissue responsible for increaseing the girth of stem.

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35. Name the following

Simple permanent tissue that provides support, stores food and fills vacant spaces in plants.

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36. True or False

If false, write the correct sentence

In unicellular organisms, all functions are performed by organelles of that single cell.

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37. True or False

If false, write the correct sentence

Cells of connective tissue are loosely arranged

with a ground substance in free spaces on between.

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38. True or False

If false, write the correct sentence

Blood is a type of connective tissue.

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39. True or False

If false, write the correct sentence

Glandular epithelium is made up of thin, small, flat cells that form a semipermeable membrane.

 Watch Video Solution

40. True or False

If false, write the correct sentence

Stratified epithelium is present in inner layer of the skin.

Watch Video Solution

41. True or False

If false, write the correct sentence

Columnar epithelium is located in the mucosa of intestine and alimentary canal.

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42. True or False

If false, write the correct sentence

Many nerve cells are bound together with the help of connective tissue to form a nerve.

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43. True or False

If false, write the correct sentence

Vacuoles are generally present in cells of meristematic tissue.

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44. True or False

If false, write the correct sentence

Xylem consists of cytoplasm containing living cells.

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45. True or False

If false, write the correct sentence

Genetically modified Crops are produced by introducing changes in DNA of natural crops.

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46. True or False

If false, write the correct sentence

Broiler chickens are raised for eggs.

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47. True or False

If false, write the correct sentence

Bombyx mori is the most commonly used variety of silkworm for sericulture.

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48. True or False

If false, write the correct sentence

Each of the following statements is wrong. Rewrite them correctly by changing either one

or two words.

i. Simple squamous epithelium is present in respiratory tract.

ii. Glandular epithelium is present in kidneys.

iii Chlorenchyma helps the plant to float in water.

iv. Striated muscles are also called involuntary muscles

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49. True or False If false, write the correct sentence

sclerenchyma helps the plant to photosynthesis.

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50. Find odd man out

Epithelium, muscle fibre, nerve fibre, epidermis.

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51. Find the odd one out and give reason:

Cartilage, Bone, Tendon, Cardiac muscle

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52. Odd one out

Lal kandhari, Jersey, Khillari, Sahiwal

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53. Odd one out

Long, Aseel , Lehman, Cochin

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54. Complete the analogy

Tubules in kidney : Cuboidal epithelium :: Inner layer of skin:_____

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55. Complete the analogy

Cartilage : Nose, ear, larynx, trachea ::_____:

Between skin and muscles

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56. Complete the analogy

Tendons : Join muscles to bones ::_____ : Join

two bones to each other

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57. Complete the analogy

Speaking : Voluntary muscles :: Contraction of blood vessels :_____

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58. Complete the analogy

Striated muscles : Cylindrical :: Non-striated muscles :_____

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59. Complete the analogy

Golden rice : Rice :: MON 810:_____

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60. Match the following

	Group 'A'		Group 'B'
i.	Connective tissue	a.	Mucous layer of mouth, tendons and ligaments
ii.	Epithelial tissue	b.	Cartilage, skin
		c.	Walls of alveoli, inner surface of blood vessels
		d.	Adipose tissue, cartilage

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61. Match the following

Match the types of epithelial tissues given in Group 'A' with their functions given in Group 'B'.

	Group 'A'		Group 'B'
i.	Columnar epithelium	a.	Selective transport of substances
ii.	Squamous epithelium	b.	Secretion of saliva
iii.	Stratified epithelium	c.	Secretion of digestive juice and absorption of nutrients
iv.	Cuboidal epithelium	d.	Protection of organs

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62. Match the following

Match the types of connective tissues given in Group 'A' with their functions in Group 'B'.

	Group 'A'		Group 'B'
i.	Lymph	a.	Storage of fats
ii.	Adipose tissue	b.	Transport of nutrients and hormones
iii.	Blood	c.	Supports internal organs
iv.	Areolar tissue	d.	Protects body from infections

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63. Match the following

Match the GM crops given in Group *A' with

their examples in Group 'B'..

	Group 'A'		Group 'B'
i.	Potato	a.	Vaishali
ii.	Tomato	b.	Vistive Gold
iii.	Maize	c.	Amflora
iv.	Soybean	d.	MON 863

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64. Why are epithelial tissues said to be simple tissues?

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65. Answer the following

Explain the importance of involuntary muscles in human body.

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66. Describe the structure of nervous tissue with the help of a neat labelled diagram.

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67. Answer the following

What is differentiation?

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68. Answer the following

In which type of living organisms meristematic tissues are found? State their importance.

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69. Answer the following

Which type of meristematic tissue is responsible for increasing the breadth and girth of the stem and root? What it called?

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70. Answer the following

What is the function of cuticle in plants?

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71. Answer the following

Describe the types of parenchyma tissues with their functions.

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72. Answer the following

Why sclerenchyma tissues are important for plant though they are dead tissue?

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73. Which two main techniques are used in biotechnology? Why?

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74. Define the term tissue and explain the concept of tissue culture.

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75. Explain the meaning of biotechnology and its impact on agricultural management with

suitable examples.

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76. Answer the following

Why genetically modified crops are more beneficial?

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77. Answer the following

Write examples of local Indian varieties of cow.

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78. Discuss agritourism in class and write a project on an agritourism centre nearby. Present it in the class in groups.

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79. Answer the following

What should an agri-tourism centre consist of?

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80. Answer the following

How should proper care of cattle be taken in animal husbandry for clean and high milk yield?

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81. Answer the following

Why are the new hybrid varieties of chicken

developed by crossing Indian varieties with exotic varieties?

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82. Write short notes

Meristematic tissue.

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83. Answer the following

Write short notes on Xylem .

Watch Video Solution

84. Write short notes

Striated Muscles

Watch Video Solution

85. Write short notes:

Agro-complementary business

Watch Video Solution

86. Answer the following

Write short notes on Genetic enginecring.

Watch Video Solution

87. Answer the following

Explain Sericulture.

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88. Answer the following

Give examples of the following :

Types of animal tissues.

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89. Answer the following

Give examples of the following :

Structures/ Parts of human body body made of epithelial tissues.

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90. Answer the following

Give examples of the following :

Dead cells in xylem.

Watch Video Solution

91. Answer the following

Give examples of the following :

Living cells in phloem

Watch Video Solution

92. Answer the following

Give examples of the following :

GM crops

 Watch Video Solution

93. Answer the following

Give examples of the following :

Local (Indian) cow varities.

 Watch Video Solution

94. Answer the following

Give examples of the following :

Exotic cow varities

Watch Video Solution

95. Answer the following

Give examples of the following :

Broilers

Watch Video Solution

96. Answer the following

Give examples of the following :

Layers

Watch Video Solution

97. Answer the following

Give examples of the following :

Chickem varities reared for eggs as well as meat.

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98. Give reasons

Blood is kwon as complex an connective tissue.

Watch Video Solution

99. Give reasons

Rearing of sheep is a livestock'.

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100. Distinguish between simple tissues of plants and complex tissues of plants.

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101. Distinguish between Xylem and Phloem.

Watch Video Solution

102. Distinguish between Non-striated muscles and cardiac muscles.

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103. Complete the given chart/table.

Complete the given table by filling the location of the given connective tissues and explain the structure of each one of them.

	Types of connective tissues	Location	Structure
i.	Lymph		
ii.	Areolar Tissue		
iii.	Adipose Tissue		
iv.	Cartilage		
v.	Tendons		

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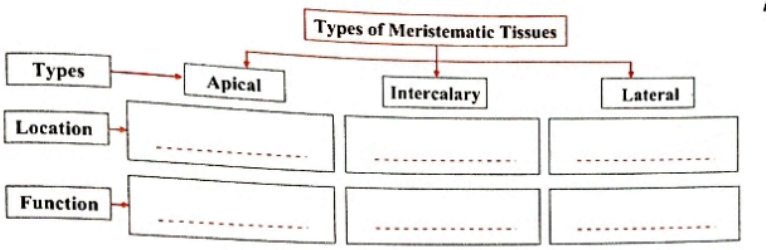
104. Complete the given chart/table.

Complete the given flow chart stating the location and function of the given meristematic tissues.



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105. With the help of neat labelled diagram, explain the types of simple permanent tissues

in plants.

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106. Question based on diagram

Identify the types of epithelial tissues (P, Q and R) shown below:

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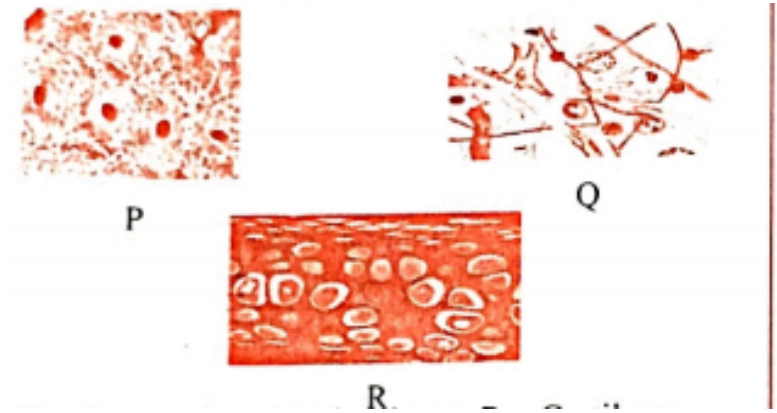
107. Question based on diagram

Identify the types of connective tissues (P,Q and R) shown below:



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108. Question based on diagram

Sketch and label of A nerve cell.

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109. Question based on diagram

Sketch and label of Types of simple permanent tissues in plants.

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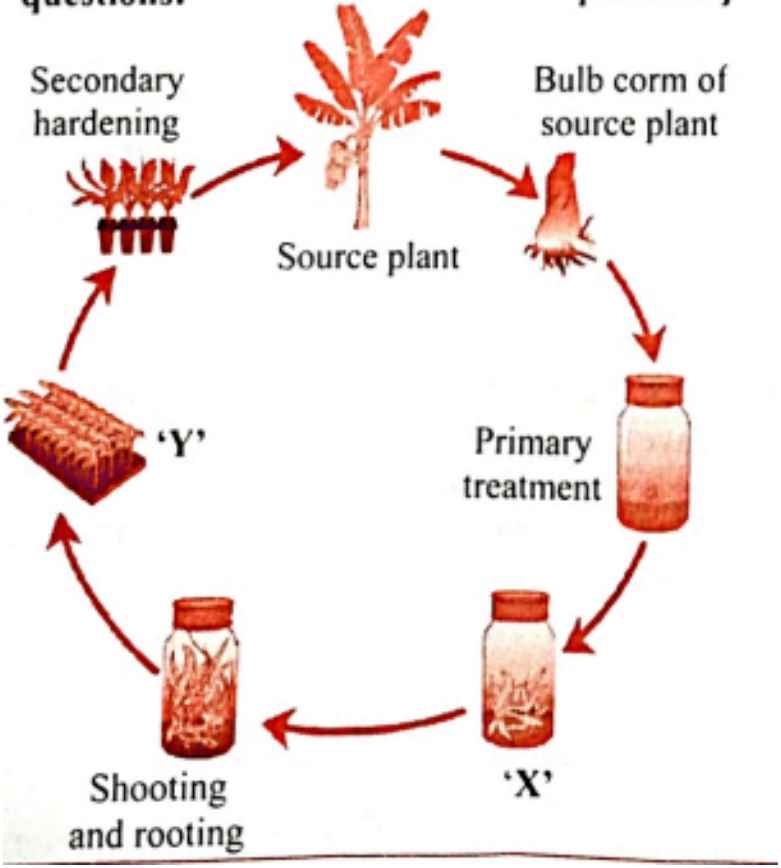
110. Question based on diagram

Observe the given figure and answer the questions:



What does the given figure represent?

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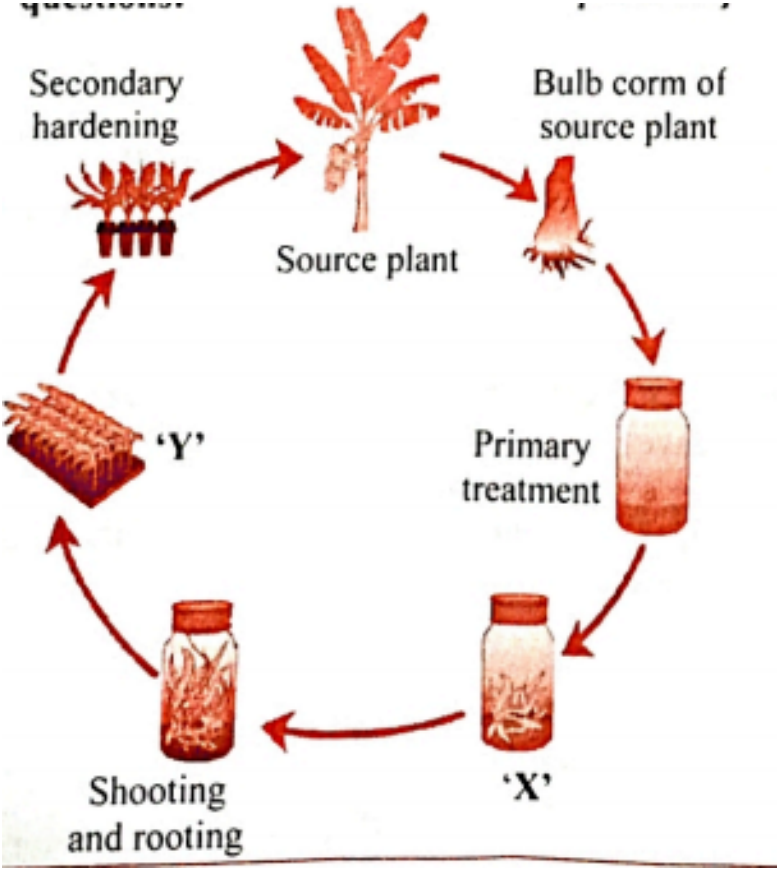
111. Question based on diagram

Observe the given figure and answer the questions:



Identify 'X' and 'Y' in the given figure.

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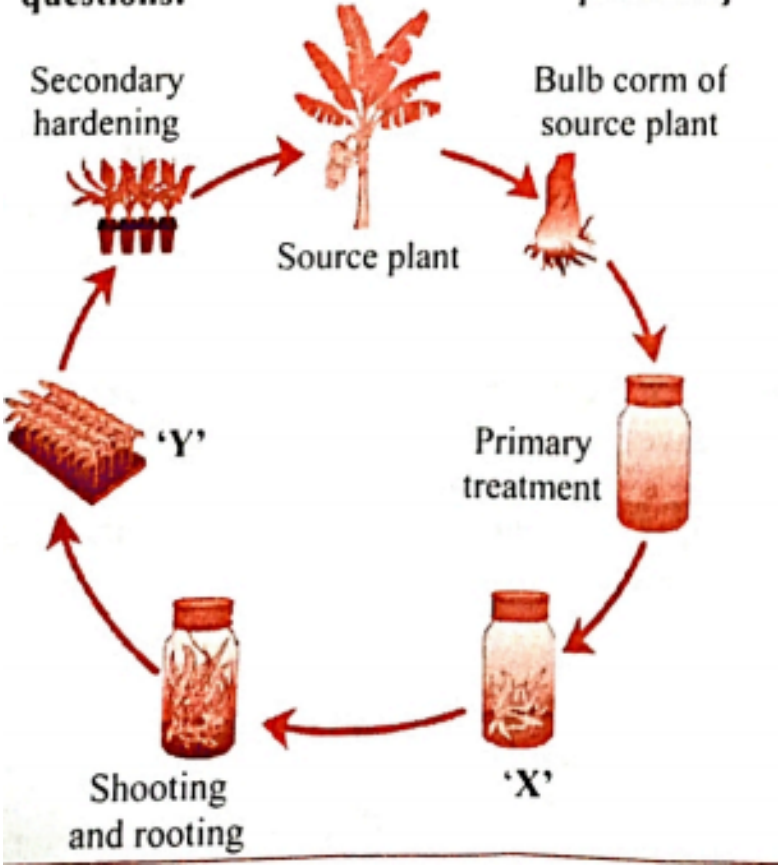
112. Question based on diagram

Observe the given figure and answer the questions:



What is the benefit of the technique shown in the given figure?

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113. Question based on paragraph

Students were taken to observe the crop cultivation in a potato farm in Maharashtra. The students observed that the yield of crops in Mr. Shyam's potato farm was more than that in his neighbour Bharat's potato farm. Mr. Shyam was using a different variety of the crop, which he suggests has been disease-free ever since he planted the seeds. Based on the above passage, answer the given question

What type of crop do you think Mr. Shyam must be using?

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114. Question based on paragraph

Students were taken to observe the crop cultivation in a potato farm in Maharashtra. The students observed that the yield of crops in Mr. Shyam's potato farm was more than that in his neighbour Bharat's potato farm. Mr. Shyam was using a different variety of the crop, which he suggests has been disease-free ever since he planted the seeds. Based on the

above passage, answer the given question

Do you know any superior variety of potato?

Watch Video Solution

115. Question based on paragraph

Students were taken to observe the crop cultivation in a potato farm in Maharashtra. The students observed that the yield of crops in Mr. Shyam's potato farm was more than that in his neighbour Bharat's potato farm. Mr. Shyam was using a different variety of the

crop, which he suggests has been disease-free ever since he planted the seeds. Based on the above passage, answer the given question

Are there any adverse effects of using such crops? Mention one.

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116. Question based on paragraph

Students were taken to observe the crop cultivation in a potato farm in Maharashtra. The students observed that the yield of crops

in Mr. Shyam's potato farm was more than that in his neighbour Bharat's potato farm. Mr. Shyam was using a different variety of the crop, which he suggests has been disease-free ever since he planted the seeds. Based on the above passage, answer the given question

Apart from improved yield what added advantage did Mr. Shyam's crops have?

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117. Question based on paragraph

Students were taken to observe the crop cultivation in a potato farm in Maharashtra. The students observed that the yield of crops in Mr. Shyam's potato farm was more than that in his neighbour Bharat's potato farm. Mr. Shyam was using a different variety of the crop, which he suggests has been disease-free ever since he planted the seeds. Based on the above passage, answer the given question

Mention two techniques used for the production of such superior varieties of crops.

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118. In the living organisms write components which bring important processes?

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119. Name the following

The smallest structural and functional unit of the body of living organisms?

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120. Are the structure and functions of the bodies of plants and animals the same?

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121. Why our organs like the heart, blood vessels and intestines are enclosed in body?

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122. Observe the skin of the back of your hand with the help of a magnifying lens. Do you see the closely attached squarish and pentagonal shapes?

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123. What keeps the various organs and organ systems separate from each other? Why?

Watch Video Solution

124. Observe a permanent slide of blood smear under a compound microscope. What did you see?

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125. Why do slim persons feel more cold in winter than those who are obese?

Watch Video Solution

126. Why bones can not be folded?

Watch Video Solution

127. Bend your arm at elbow. Observe the muscles in the front and the back of the arm. Straighten the arm and observe the same muscles again. Do the same with your leg folding it at the knee joint. Did you experience the contraction and relaxation of muscles at every movement?

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128. Which type of muscle is the diaphragm of the respiratory system?

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129. Close your eyes and try to identify different objects by feeling them with your hand. Why is it possible for you to identify things like a note-book, text-book, bench, compass-box, etc. only by touching them?

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130. What helps us to identify the singer by merely listening to the song or to identify what is being cooked in the kitchen by the mere smell?

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131. What is the main difference the growth of animals and plants ?

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132. What is the reason behind the growth of a plant takes place only at certain parts of the plant body?

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133. As shown in the figure, place an onion on each gas jar in such a way that its base (roots) will remain dipped in water. Measure and record the length of the roots of both onions

on the first, second and third day. On the fourth day, cut off 1 cm of the roots of the onion in flask B Measure the length of the roots of both onions for the next five days and record table.

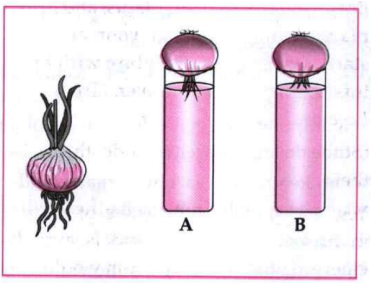

Fig. 17.6: Changes in roots of onion

Length (cm)	Day 1	Day 2	Day 3	Day 4	Day 5
Flask A					
Flask B					

Why did the roots of the onion in jar B stop growing?

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134. Take a fresh and fleshy leaf of Rhoeo, lily or any other plant. Pull and press it, tearing it obliquely in such a way that its transparaent epidermis will be visible at the cut margins. Take the transparent epidermis with the forceps and keep it in dilute safranin solution for 1 minute. Spread it on a slide, cover it with a cover-slip and observe it under a compound microsope.

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135. Suppose you want to grow a garden like the one shown in the picture, around your home or school. What would you do to achieve that? By which methods will you cultivate the seedlings

Fig. 17.5: Tissue culture: Plantlets of banana and farming with their help

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136. You must have seen flowers of same variety but of 2 or 3 different colours borne by same plant. How is this possible?

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137. Give examples of GMCs.

Watch Video Solution

138. Collect information about GM varieties of crops in your area and make a note of them.

Also find out if there are adverse effects of GM crops on human beings and environment.

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139. Establish your own plant nursery near your school or home. Prepare the seedlings of flowering plants, fruit plants, and ornamental plants being grown in your area. Can you start a business in the future with the help of this activity? Think it over.

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140. Who introduced tissue culture?

 Watch Video Solution

141. To which places do people choose to go on vacation in order to relax when they are tired of crowds and stressful life?

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142. Enlist types and components of complex permanent tissues.

Watch Video Solution

143. Write functions of parenchyma and its subtypes.

Watch Video Solution

144. Visit a modern cowshed nearby and record the following points- The number of cattle, their variety, total milk production, cleanliness in cattle-shed, arrangements for health care of cattle.

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145. What is meant by 'white revolution?

Watch Video Solution

146. Collect more information about animal husbandry.

Watch Video Solution

147. Find out from the internet the average daily milk yield from local and exotic varieties fo cow.

Watch Video Solution

148. Obtain information about the diversity of butterflies. Collect detailed information about what would have to be done to establish a butterfly garden in your school.

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149. Visit an apiculture centre and gather information about it.

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150. Choose the correct alternative

Visitive Gold is a genetically modified variety of

.

A. rice

B. maize

C. potato

D. soybean

Answer:

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151. Choose the correct atternative

Which of the following stain is used for staining leaves and stem tissues?

A. Methylene blue

B. Safranin

C. Exosin

D. Iodine

Answer:

Watch Video Solution

152. Choose the correct atternative

Which simple permanent tissue is present in the outer covering of coconut?

A. Chlorenchyma

B. Sclerenchyma

C. Aerenchyma

D. Parenchyma

Answer:

Watch Video Solution

153. Choose he correct alternative

Which of the following is NOT true for cells of the meristematic tissue?

A. It contain thick eytoplasm

B. It contains a conspicuous nucleus

C. These cells are highly active

D. Cells are loosely arranged

Answer:

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154. Find the odd one out and explain.

Collenchyma, Chlorenchyma, Aerenchyma, Sclerenchyma

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155. Identify whether the given statement is true or false. If false, write the correct statement.

Amflora is a genetically modified variety of soybean.

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156. Comptete the given analogy:

Salivary gland : Cuboidal epithelium :: Inner layer of skin:_____

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157. Answer the following

Which tissue forms protective coverings in the animal body.

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158. Why blood is considered as complex connective tissue.

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159. Give scientific reasons

In today's world genetically modified crops are more beneficial.

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160. What are GM crops? Give examples.

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161. Distinguish between:

Striated muscles and Non-striated muscles.

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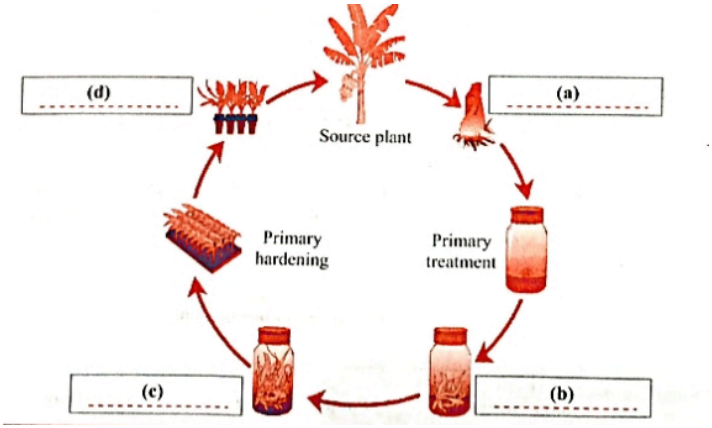
162. Complete the following flow chart.



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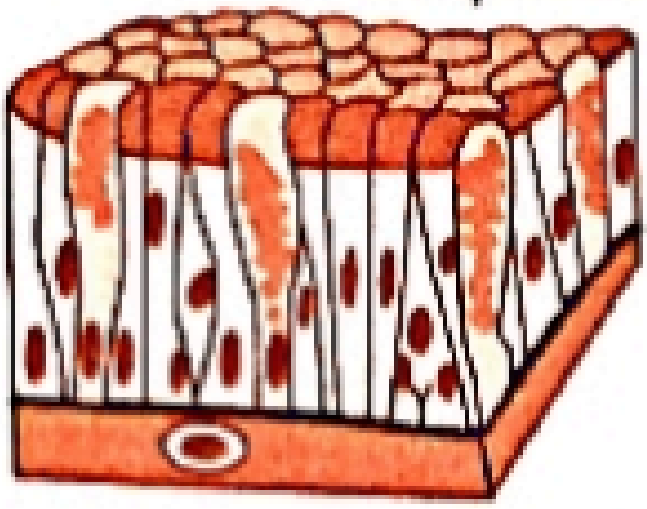
163. Observe the diagram and answer the questions given below it.



Identify the type of tissue in the given figure.

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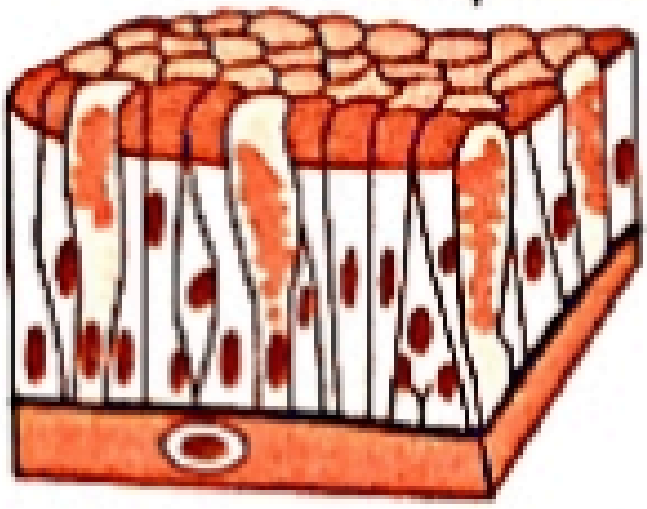
164. Observe the diagram and answer the questions given below it.



Mention the function of these tissues.

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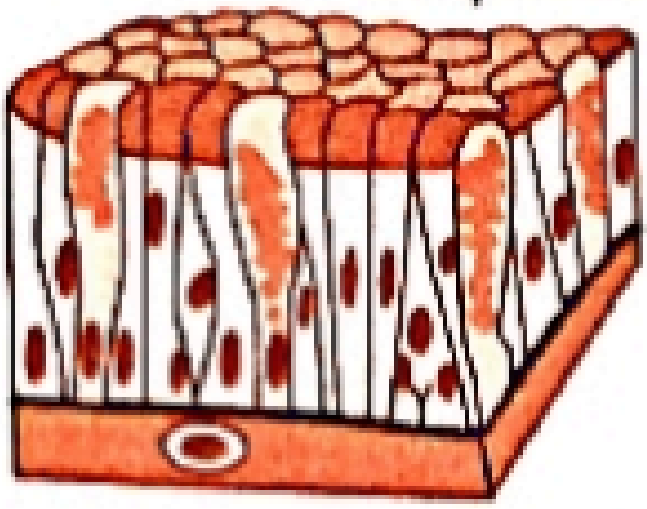
165. Observe the diagram and answer the questions given below it.



Describe the cellular structure Of the given tissue.

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166. Collenchyma is classified as a simple permanent tissue. Explain.

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167. What measures in a dairy farm should be followed to obtain high milk yield?

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168. Read the paragraph and answer the questions given below it. The cells of the nervous tissue become excited on receiving stimuli and conduct that excitation from one part of the body to another. The cell body

containing the cytoplasm and nucleus is the main part of each nerve cell. Numerous, small, branched fibres called dendrites arise from the cell body of the nerve cell. One of the fibres is extremely long, it is called the axon. Numerous nerve cells are bound by connective tissue to form a nerve. Nervous tissue is present in the brain, spinal cord and the network of nerves spread all through the body. In most of the animals, response to stimuli occurs due to the integrated functioning of the nervous and muscular tissue.

What is the cell body of a nerve cell composed of?

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What would happen if the nervous tissue is damaged?


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How are nerves cell bound together to form a tissue?

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How can stimuli at one end of the body generate an impulse in the brain?

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integrated functioning of the nervous and muscular tissue.

Functioning of which two tissues are involved in generating a response to stimuli?

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